

Harvey County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 6/26/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 23 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Harvey County economy.¹

These 23 sectors have a total direct output of approximately \$1.37 billion and support 3,065.1 jobs in Harvey County. Running the model for all 23 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Harvey County Economy								
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional	Output ⁵	Output % of Gross Regional Product		
				Product ⁴		Troduct		
Direct Effect	3,065.1	11.78%	\$285,275,122	18.65%	\$1,365,976,140	89.30%		
Indirect Effect	1,175.0	4.52%	\$68,793,287	4.50%	\$140,265,289	9.17%		
Induced Effect	1,017.2	3.91%	\$56,247,665	3.68%	\$106,514,949	6.96%		
Total Effect	5,257.3	20.21%	\$410,316,073	26.82%	\$1,612,756,378	105.43%		

As shown in the above table, agriculture, food, and food processing sectors support **5,257.3 jobs**, or **20.21%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$1.61 billion**, roughly **105.43%** of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 23 agriculture, food, and food processing sectors is approximately \$410.3 million, or 26.82% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 26.82% of the total economy.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the farm machinery and equipment manufacturing sector is the top employer with **1,684.1 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Harvey County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment				
Sector	Total Employment	Total Output		
Farm machinery and equipment manufacturing	1,684.1	\$967,963,358		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	417.6	\$50,127,726		
Landscape and horticultural services	240.0	\$6,737,916		
Real estate	194.0	\$15,420,515		
Grain farming	184.4	\$68,390,062		
Animal, except poultry, slaughtering	119.8	\$86,757,448		
Wholesale trade	117.8	\$25,518,889		
Securities and commodity contracts intermediation and brokerage	91.2	\$5,932,650		
Limited-service restaurants	88.8	\$6,648,065		
Marketing research and all other miscellaneous professional, scientific, and technical services	87.6	\$4,334,450		

The farm machinery and equipment manufacturing sector directly contributes approximately **\$968.0 million** to the Harvey County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output				
Sector	Total Employment	Total Output		
Farm machinery and equipment manufacturing	1,684.1	\$967,963,358		
Animal, except poultry, slaughtering	119.8	\$86,757,448		
Flour milling	55.6	\$80,991,206		
Grain farming	184.4	\$68,390,062		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	417.6	\$50,127,726		
Oilseed farming	25.0	\$28,113,726		
Lawn and garden equipment manufacturing	50.8	\$25,867,330		
Wholesale trade	117.8	\$25,518,889		
Owner-occupied dwellings	0.0	\$18,019,518		
Real estate	194.0	\$15,420,515		

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Harvey County economy.

All Agriculture, Food, and Food Processing Sectors				
Sector	Total Employment	Total Output		
Oilseed farming	25.0	\$28,113,725.66		
Grain farming	184.4	\$68,390,060.42		
Vegetable and melon farming	1.5	\$352,719.75		
Fruit farming	1.4	\$142,636.81		
Tree nut farming	0.01	\$3,886.39		
Greenhouse, nursery, and floriculture production	5.2	\$822,595.12		
Cotton farming	1.5	\$466,055.45		
All other crop farming	62.3	\$4,753,852.37		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	417.6	\$50,127,723.69		
Dairy cattle and milk production	12.9	\$5,218,382.36		
Poultry and egg production	2.5	\$2,132,883.31		
Animal production, except cattle and poultry and eggs	32.9	\$4,377,564.91		
Commercial logging	9.9	\$1,641,508.58		
Flour milling	55.6	\$80,991,210.94		
Animal, except poultry, slaughtering	119.8	\$86,757,446.29		
Bread and bakery product, except frozen, manufacturing	28.2	\$3,548,454.28		
Frozen cakes and other pastries manufacturing	1.8	\$269,641.82		
Fertilizer mixing	22.5	\$14,697,931.29		
Farm machinery and equipment manufacturing	1,684.1	\$967,963,378.91		
Lawn and garden equipment manufacturing	50.8	\$25,867,330.55		
All other industrial machinery manufacturing	27.2	\$5,724,806.79		
Veterinary services	78.0	\$6,874,448.30		
Landscape and horticultural services	240.0	\$6,737,915.99		

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Harvey County, the retail sector was omitted.